Network Control Center

STDN DAILY REPORT
FOR GMT DAYS
11, 12 AND 13 JUNE , 2001

Part I. Operations

11 JUNE

A. SN Anomalies:

1. WSGT ISS Support 11/0905-0935Z

POCC forward commands were not getting to spacecraft. POCC performed a forward frequency off which didn't help. POCC requested a forward link failover which didn't help. All indications at WSC and GUAM were nominal and no problems noted. POCC reported during post event discussions that the indications they saw were a loss of voice, followed by a loss of command capability. After investigation the anomaly was found to be a bad WSGT OTU-8. Cards were swapped out and test were run no other problem found. TTR # 23927

275 SSAF1 0905-0935Z 30 Min. Svc Loss

B. ISS Anomalies - None.

C. GN Anomalies:

1. AGS/EO-1 Support 11/0720-0728Z

EO-1 #2935 (162/07:20Z), S & X-Band event. One problem noted, the operator had to do 2 re-sweep's of uplink to the S/C before the Project could confirm that we were into the S/C. Everything at the ground station looked nominal, i.e. the Master loaded with no problems and all the equipment appeared to be working ok. Project reported that they did not get all of their

commanding out and did lose a couple of frames of data but the data drops could be due to the extra CRC/SEQ errors received during this support. Cause for the problem is unknown at this time. CDS # 18967

11M 0720-0733Z 7 Min. 35 Sec. Svc/Data Loss (Recov)

2. AGS/FAST Support 162/2217-2221Z

The Antenna was at zenith and was rotating CCW 180 degrees and didn't stop, continuing on past where it started the track. The Antenna was recovered by disabling "Autotrack", going to "Program" mode, which continued in the wrong direction, then went to "Standby". The station turned the track off, commanded antenna to "Stow" for the computer to update location, then "Inserted Track" to continue the support. The FEP and the Metrum tapes in TOTS-1 were shutdown when the pass was terminated. CDS # 18977

TOTS-1 2222-2232Z 2 Min. 27 Sec. Svc/Data Loss (Non-Recov)

12. JUNE

A. SN Anomalies: (See item B)

B. ISS Anomalies:

1. ISS Support 12/033438-042349Z

ISS event was out of view of the TDRS until 03:36:35Z, at which time the prime A RTN chain showed false lock. The HSM B return chain was lock with RF present. CSC performed return chain failover from “A” to “B” at which time the POCC started receiving data at 03:40:58Z. IR start acq was performed on “A” return chain at which time it locked at 03:42:23Z. TTR # 23928

171 SSAIF/R 4 Mins. 23 Secs. Service/Data Loss Non-Recov

C. GN Anomalies:

1. AGS/TRACE Support 12/1231-1241Z

The station took several power hits tonight, and during this support the TSS2000 did not apply command modulation properly. None of the commands received were processed. An attempt was made to bring uplink down on LEO-T and bring up uplink and socket connections on TOTS, but this was not completed until about 20 seconds prior to LOS and TOTS did not receive any commands from the Project. All data was received, and recorded by TOTS. CDS ID# 18978

LEO-T 10 Mins. Service Loss

D. Landsat-4 End-of-Life Activities:

The Flight Operations Team successfully completed approximately twenty minutes of thruster firings this evening. SN support was nominal. The Project is planning to execute additional burns Wednesday and Thursday to exhaust the fuel supply. Closeout and shutdown of all S/C systems will take place Friday, after which the Landsat-4 mission will officially be terminated.

13 JUNE

A. SN Anomalies

1. LANDSAT-4 Supports 13/0720-0905Z

The POCC experienced a late acquisition and dropouts during the events listed below. This anomaly is under investigation. TTR # 23929

TDS SSA1F/R 0720-0735Z 5 Mins Svc/Data Loss Recoverable (Unknown)
TDS SSA2F/R 0850-0905Z 1 Min. 33 Secs. Svc/Data Loss Recoverable (Unknown)

2. LANDSAT-4 Support 13/1831-1926Z

POCC advised they were not receiving data. STGT had good lock. Comm Manager reported that the PTP circuit was broken down at 1831Z. RFO: the Common Carrier at MSFC had a work order to disconnect this circuit. PTP circuit restored at 1926Z. This anomaly is under investigation. TTR # 23930

171 SSA2R 8K/8K 1845-1900Z 15 Mins. Svc/Data Loss Non-Recoverable
171 SSA2F 1K 1845-1900Z 15 Mins. Service Loss

B. ISS Anomalies - None.

C. GN Anomalies:

1. WGS/SEAWIFS Support 13/0434-0435Z

At the start of dump the operator notice that the video was jumping. Switched to internal clock video problem cleared. CDS ID# 18984

TOTS 0433-0446Z 1 Minute Data Loss Recoverable (Unknown)

2. WGS/FUSE Support 13/0714-0722Z

Project unable to sent commands to their spacecraft. Reason Unknown. Station checked equipment no problem noted. CDS ID# 18985

LEO-T 8 Minutes Service Loss

3. WGS/SOLAR-A Support 13/1849-1852Z

TOTS antenna failed at AOS. Switch to 11M caused low block count. CDS ID# 18989

TOTS-3 40 Seconds Service/Data Loss Recoverable (Unknown)

F. Landsat-4 End-of-Life Activities

Landsat-4 has completed 2 series of burns. Telemetry indications are showing they are approaching the end of their fuel. Another burn period is scheduled for around 165/0200Z. All TDRS supports have been nominal. Earlier this afternoon a 15 minute tracking pass was lost when the common carrier terminated the Landsat data lines. The lines were down from 1831-1926Z. There were no WSC problems. (See Item 2B) TTR # 23930 was written and further investigation will take place during day shift Thursday. Options remaining: If the S/C is not out of fuel after tonight's last burn, the Project will finish depleting fuel Thursday. If fuel depletion is completed tonight, activities will commence on Friday to drain the batteries of remaining power, the solar arrays will be off pointed, and the transmitter turned off. These activities will be completed by 3:00pm Friday (166/1900Z).

Part II. Testing Anomalies

A. SN Test - None.

B. GN Test - None.

Part III. Equipment Status Changes - None.

C. GN Red Items:

$ 1. WPS 934: TR7V:03, D Analog Mag Tape RCRD 7TRK R, 05250050Z, ETRO 06162359Z. Recorder has short causing 01 reel motor Power supply amplifier card assy 533484-001A to burn Out on the board. Troubleshooting in progress.

$ 2. WPS 935: LDO:01-L2, 9MT Antenna System, RY 05302100Z, ETRO 06162359Z. System has both a Hydraulic leak and Gear Box leak. Parts have been ordered. System can only Be operated when a Hydraulic Maintenance Technician is available to watch the system. Parts are on station and are being replaced this week.

** 3. MIL 077: DBS:01, 6BSMA LIMITED OPERATIONS RY 06131500Z, ETRO: 06222000Z. MIL-DBS-1 is not replicating will have no operational impact as long as MIL-DBS-1 server doesn't fail. If MIL-DBS-1 fails, as long as the RCIs are configured for mission (launch) can be accomplished if any equipment fails and need to be replaced. We can still use the equipment to support but it will not be reflected in the system Overview screens or SSM. Also the RCIs are configured for STS-104 and can not be reconfigured for any other support. All commands from the RCIs to the Oracle database in the MIL-DSB-1 server are being ignored. MILA cannot release the STS-104 Launch support and reconfigure for either Orbit or Landing supports.

$ = Changed ETRO
** = New Items

Part IV. Scheduled Activities:

QUIKTOMS I&T #4 Fully Integrated Ground Data System Test	14/1055-2015Z
OMNI/Low Power Transceiver	14/1300-2100Z
GOES-M Command Engineering Test	14/1400-1700Z
TNOC/SKS AQUA GSIF TIGER Team Data Interface Test	14/1500-1630Z
STS-104 Operations Training Exercise	14/1700-2200Z
TDRS-I Engineering Testing	14/1845-2145Z

Part V. Launch Forecast Changes

* 1.) W1576LS (PEGASUS/HESSI) NET 20 JUN.,2001 T-0 = 1800Z

* 2.) M2104LS (STS-104/ISS-10-7A) 193 12 JUL.,2001 T-0 = 0903Z